PATENT COOPERATION TREATY

From	the
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INTERNATIONAL SEARCHING AUTHORITY

To: YOON, Jee Hong	\mathbb{PCT}				
Hannuri Bldg. 219 Naeja-dong, Chongno-gu, Seoul 110 Republic of Korea	O-053, WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)				
	Date of mailing (day/month/year) 11 NOVEMBER 2004 (11.11.2004)				
Applicant's or agent's file reference FE241493	FOR FURTHER ACTION See paragraph 2 below				
	Priority date(day/month/year) Priority date(day/month/year) 25 JULY 2003 (25.07.2003)				
International Patent Classification (IPC) or both national classification and IPC IPC7 H04B 17/00					
Applicant UTStarcom Korea Limited et al					
Box No. IV Lack of unity of invention X Box No. V Reasoned statement under Rule citations and explanations supp Box No. VI Certain documents cited Box No. VII Certain defects in the internat Box No. VIII Certain observations on the int 2. FURTHER ACTION If a demand for international preliminary examinatio International Preliminary Examining Authority ("IPE other than this one to be the IPEA and the chosen IPI opinions of this International Searching Authority will this opinion is, as provided above, considered to be IPEA a written reply together, where appropriate, will	with regard to novelty, inventive step and industrial applicability e 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; iorting such statement ional application ernational application in is made, this opinion will be considered to be a written opinion of the EA") except that this does not apply where the applicant chooses an Authority EA has notified the International Bureau under Rule 66.1bis(b) that written				

Name and mailing address of the ISA/KR

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

à' ·

International application No.

PCT/KR2004/001879

Во	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing table(s) related to the sequence listing
	b. format of material
	in wirtten format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2004/001879

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

. Statement		
Novelty (N)	Claims 1 - 4	YES
	Claims	NO
Inventive step (IS)	Claims 1 - 4	YES
	Claims	NO
Industrial applicability (IA)	Claims 1 - 4	YES
	Claims	NO

2. Citations and explanations:

- 1. Reference is made to the following document:
 - D: US 6,407,689 B1 (QUALCOMM INC.) 18 June 2002
- 2. The present invention relates to a CDMA Signal Generator which uses a relatively low priced AWGN generator and SAW filter in order to reduce the overall manufacturing costs thereof, eliminates the need for the costly CDMA signal generator while functioning substantially the same as the conventional CDMA generator and tests an RF equipment at the CDMA band as well as at the WCDMA band.
- 3. D is directed to Method and apparatus for controlling stages of a multi-stage circuit which provides a control mechanism that can be used to control a sigma-delta ADC to provide the required level of performance while reducing power consumption. The sigma-delta ADC is designed with multiple stages and provides improved performance as more stages are enabled. The control mechanism selectively enables a sufficient number of stages to provide the required performance and disables remaining stages to conserve power.
- 4. D does not disclose the characteristic of the present invention which can test the distortion characteristics of the RF block units without using the costly CDMA signal generating equipment.
- 5. It is thus believed that Claims 1-4 meet the criteria set out in PCT Article 33(2)-(4). D does not teach nor fairly suggest any of the components which are especially set forth in the claims. Therefore, Claims 1-4 have novelty, an inventive step and industrial applicability.